



SEQUENCE LISTING

<110> F. F. F. Paul B.

<120> Reciprocal Subtraction Differential Display

<130> 34587-C-PCT-USA-I

<140> US 10/725,969

<141> 2003-12-02

<150> US 09/644,460

<151> 2000-08-23

<150> PCT/US99/04323

<151> 1999-02-26

<150> US 09/197,889

<151> 1998-11-23

<150> US 09/185,115

<151> 1998-11-03

<150> US 09/032,684

<151> 1998-02-27

<160> 42

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 371

<212> DNA

<213> rattus norvegicus

<220>

<221> unsure

<222> 5, 93, 153, 199, 217, 218, 221, 247, 259, 260, 274, 333,
335, 358, 360

<223> n = A,T,C or G

<400> 1

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attagcccag aaactgacca tcagactgtc aancagggtac cggtatggcc agttaattga 120
aataaacagc cacagcctat tttctaagtg gtnttcagaa agtggcaagt tggtaactaa 180
gatgttcag aagattcang acttgattga tgataannaa nctttgggtg ttgtcctgat 240
tgatgangta agcactcann ggtactcatt cttngtctgc attgcctctt gctattactg 300
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ccaccggtt c 371
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<210> 2

<211> 245

<212> DNA

<213> rattus norvegicus

<400> 2

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tgacaatact cggccaacaa ttcttgcata gactgtctgat aaataactat gttacaaaaa 120
gggggtgggtcc ctggagaaca ttacaggctt ccctagggtaa gtgtgcaggc caggagacgg 180
catattcaat cagatggctg atagttctcc gtgggttatgc accggctcca gcttgcctac 240
gtcac 245
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<210> 3

<211> 178

<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 140, 163
<223> n = A,T,C or G

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actatctgca tcatcaagcg agggccttggt tgcgaggcta tgtgcagaga cgagcagggc 120
gaggcactta aaagctgctn gatgaaaatc caccaggag aantctgggc ctacgtca 178

<210> 4
<211> 191
<212> DNA
<213> rattus norvegicus

<400> 4
tgacgtaggc ccagacttct cctgggtgga ttttcatcca gcagctttta agtgcctcgc 60
cctgctcgtc tctgcacata gccgccgaca caagccctcg ctgatgatg cagatagtcc 120
atctgccitt ctctcccctt gccctgctat gactgttgca ttaaattcat catgctgcca 180
aaaaaaaaa a 191

<210> 5
<211> 124
<212> DNA
<213> rattus norvegicus

<400> 5
gccataaata cactttatct cattcgaaat gcataatcac actgggagca ctccctttgg 60
agcactcctc tagcagcagg tccgaagtgc tccagcatcg tcagctggct ccaacaccta 120
cgct 124

<210> 6
<211> 61
<212> DNA
<213> rattus norvegicus

<400> 6
ttttttttt ttgggaaaca gaataaagtg ctttattctc tggctggctc tcctacgtca 60
c 61

<210> 7
<211> 216
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 145
<223> n = A,T,C or G

<400> 7
tcggcgatag cattggagca agtcttatca gcaagcaatg ttttcagtta tgtttcaaag 60
ttaagaatgg gtttaaaactt gctgaacgta aagattgacc ctcaagtcac tgtagcttta 120
gtacttgctt attgtattag ttanattgct agcaccgcat gtgctctgca tattctggtt 180
ttattaaaat aaaaagttga actgcaaaaa aaaaaa 216

<210> 8
<211> 334
<212> DNA
<213> rattus norvegicus

<220>

<221> unsure
<222> 42, 107, 126
<223> n = A,T,C or G

<400> 8
tttttttttt tttttttttt tttttttttt tttttttttt tngccaggct atgtctcaga 60
ctttattatt attattatta ttattattat tataaataaa acatgtncct tcaattaggt 120
tacaanagta tttatctcca taacgcttct tcatacatcc ttagttttgg attaaagtac 180
catccacccc aactcaaact gtaaccccca gtaatcccct ctaacgtgga aatttctggg 240
ttaacaactc agttaactgc cccacaaaca gtgggaggcc gctcttgcac ggctatgcc 300
cgtaaccctt cactgcttca ctcttcgct ggct 334

<210> 9
<211> 136
<212> DNA
<213> rattus norvegicus

<400> 9
gaccgcttgt accatccaac ttgctttgtc ttctgcagag aggaggctaa agcccttgag 60
ctggctggca ctgtactcag gccggaagcc cagctcgtcc cggttcttga caaagcaagt 120
tggatggtac aagcgg 136

<210> 10
<211> 316
<212> DNA
<213> rattus norvegicus

<400> 10
tgccgagctg ggtattgtga cggttgataa tggcggcatc atgttgccag gtaccgggta 60
agcagacctc agagcacagc ttattgtcca gtgctttcac gctcgcgacg tcaaagtcac 120
tgattattgtc acactccatg cctagaaatg cgcattgtct ctggccatct tcttgcacag 180
gggatctgtc ctcttcctcc atgatatcat ttccctctgc atcctgctct ccagctggaa 240
ggccagcaaa attgctgtct ggggactctg ctggggctc ctcctcttct gaaggggccc 300
tgctagcagc tcggca 316

<210> 11
<211> 337
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 254, 255, 256, 305, 318
<223> n = A,T,C or G

<400> 11
aggggtcttg atggacttgg gtcggacatc ttagtgacct gtgaattctt ctgtggaggc 60
tgagtctcac gtagccgagt ttaatatctg tgctatttac taaagtatct gccaccaaatt 120
tgtaccaact catagtttta tatgaatgtt gatgagtctg tatcataaat agaattgttg 180
atacatcctt aatttgtgca atattgtatg aagaagattg ttatcaatta aaaccacgcc 240
tctttatgat cctnnnaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaccnctca aatccatngg ttctaacca aaaccct 337

<210> 12
<211> 307
<212> DNA
<213> rattus norvegicus

<400> 12
tttttttttt catacaccat caaaccaatt ttatttctat agcaacgttt ctcacgtctg 60
aacctgagaa taagtcacca gctcttgaca gtaaacatgg gccctatcaa attatattag 120
actcctcagt gtcccgccat gtggccttgc accaaatcaa ttagtttgag ggccaaaatc 180
ctgttgggtt tcaaataaag tgtcagggtc taaggagggg gagggactca attcatggga 240
acatttttac ctgttcaaat agataaactg aattgcccta tctgtggtca cctggatcca 300
agaccct 307

<210> 13
<211> 296
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 59, 101, 110, 122, 131, 133, 148, 189, 191, 198
<223> n = A,T,C or G

<400> 13
ccctgacgat aaatggtaag gaactttttt tttttttttt tttttttttt ttttttttnc 60
gaaataaaca aacacagctt attatttggg ggaacattaa nttctataa tgaacacaaa 120
anaaaattaa nanttaatgg gggggtahaa gggactttga atctatctgg tatcatgaca 180
ttgaagcana nacctgantg accagaaaaga gagagagaga gagagagaga gagagagaga 240
gagaggtttc atatgagcta gtgttacagg ctttattagt ctattagtca gggacc 296

<210> 14
<211> 319
<212> DNA
<213> rattus norvegicus

<400> 14
aatcgggctg gatgggtgta tccggcactg tttcgtagcg gcagcaactg ggtgcttcta 60
tctgaaagcg ggcttcacaa aaactactgc gccacccgac tcgctgcggc atcgcccggg 120
ggcgagtacc gtatcgctt tcctgggtgca gaagaagtgt ttacaggagg cggtcattta 180
ccgcaatctg attctgtttt ttattctccc tggcgggtga tcgcatcgcg cagtttgaaa 240
acgatcgttg aatccacgct cgggaatgat gtggcttcgc cgccaacgct tactgacatt 300
tcatttgtag agcccgatt 319

<210> 15
<211> 287
<212> DNA
<213> rattus norvegicus

<400> 15
gccgagctgt gtaaaacat ctatcctctg gcagatctac ttgccaggcc actcccaggg 60
ggggtagacc ctctaaagct tgagatttat cttacagatg aagacttcga gtttgacttc 120
gacatgacca gagatgaatt caacgcactg cccacctgga agcaaatgaa cctgaagaaa 180
gcgaaaaggcc tgttctgagg gtgagatgac agccacagag aggtcactgc cactagacca 240
gaaagtggat ggagatatat atttggaactg gtgtttttt ctgtcag 287

<210> 16
<211> 344
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 208, 269, 338
<223> n = A,T,C or G

<400> 16
atcgggctgc agattggaga caagatcatg cagggtgaacg gctgggacat gaccatgggtc 60
actcatgacc aggctcggaa gcggctcacc aaacgttcgg aggaagtggg ccgcctgctg 120
gtgactcggc agtctctgca gaaggccgta cagcagtcca tgctgtcata gctgtagtca 180
gcctagactt ctgcccactg accttttngg gcactgagaa cacatccacg ctctgtctgt 240
atctagtctt ggcttctgct gtgtgctang ccccagctct gaggagtaac agctgatccc 300
aaagggtcaa gccaaccttc ttaccctca gccccancc cgat 344

<210> 17
<211> 300
<212> DNA
<213> rattus norvegicus

<400> 17
 tttttttttt tttgggcaac tatgtattta ttgtgttttg aaggcagagt gagggaggag 60
 accccagcag gaagaagact ggggtgcagtc tagagttcct agtcaagagt aggaagggtt 120
 ctgtttatacc catcatagaa cgagagaggg ggctcaatag atcatcccct ttgtctctcc 180
 acggggcttc ttgagcttct caaagttctt caggatgatg tcatataaca cagcataagc 240
 gttacggatc tccatgacca tcagccggat ctccctggat tccgcctcgt ccagctcggc 300

<210> 18
 <211> 461
 <212> DNA
 <213> rattus norvegicus

<220>
 <221> unsure
 <222> 3, 161, 181, 190, 459
 <223> n = A,T,C or G

<400> 18
 aanatctgct taaaagtctt ttaatttgta ccatttcttc aaataaagaa ttttgggtaca 60
 aattaaagaa cttttaagca gatgttttgg tgcaactaat agaaaagata aaggcagcct 120
 gacatgcatg cactgcctca gtgaccagta aagtcacatg nccttgggac gtcagcttag 180
 ntttatcacn gtgtcccagg ggtgcttgtc aaagagatat tctgccatgc cagattcagg 240
 ggctcccac ttgctgaagt tggtcacgtg gtcacccagt tctttaatgg atttcacctg 300
 ctatttcagg taatgctct caatgaagtc acataagtgg ggatcattct tgtcagtagc 360
 cagtttgtga agttccagta gtgactgatt cacactcttt tccaagtgca gtgcacactc 420
 cattgcattc agccccgtct cccagtcac acggtcacnt a 461

<210> 19
 <211> 280
 <212> DNA
 <213> rattus norvegicus

<400> 19
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 tgaggcactc ttctgcaact ggagggggcca gcctgggggc caggcacatt ggacaccacc 120
 ttcccatgga ctacagcgtc aatgccattg ccttctattc ctataccttc taggggctgc 180
 ccctcttccc attcagccaa cactgagtgt tgggagattt ctctttttta aaaacacatg 240
 agaaaataaa tgcactttac tccctcccca aaaaaaaaaa 280

<210> 20
 <211> 177
 <212> DNA
 <213> rattus norvegicus

<400> 20
 gtaggcaata aaatgttttc agaggtgcga aaaagctttt gttttcttaa accattctta 60
 gtctctgcca cacttgacac tccgtcaaag tgagaagcga actaaagacc aactgcggtg 120
 gaaaatatta tgtttatgta ataaaaaaaa atcatgtaac tgcaaaaaaaaa aaaaaaa 177

<210> 21
 <211> 633
 <212> DNA
 <213> rattus norvegicus

<220>
 <221> unsure
 <222> 449, 476, 478, 520, 526, 535, 570, 573, 581, 615, 619, 628
 <223> n = A,T,C or G

<400> 21
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 accgtcgaaa tgggtgatgt cctggaaaaa atggttcacc agctgccagg cagattcttt 180

gggttcacaca	ttttcctgcc	cacagatgtg	gcagaagcgg	tcaagtaatg	cagcattaca	240
attgaggcag	atcttttctt	ttcttttcctt	ggagtggctc	aaccagcgat	tttggttaaa	300
aataatcaaa	aaagcgacgg	caaaactttt	gttatattcc	cgctgtggc	atttgaactg	360
tgcccgcaa	ccgaataact	tttaattttg	aaaataaaat	gcatactaga	tttttagcgg	420
ttgcctcctg	gccattgctt	caggcgccng	cacagcgta	gcccagtttt	accacnanga	480
atatcctaag	cggtgaaaca	gggcacagcc	gaaaaaaacn	ctggcnacaa	aaaanatccg	540
gacatccttt	ttccaatttt	gaaaccgaan	gcncgcaaac	naaggttctt	cgggaaaaaa	600
aatcgccaaa	atacncgana	tcaaactntc	caa			633

<210> 22
 <211> 213
 <212> DNA
 <213> rattus norvegicus

<400> 22						
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tagaagtaat	aagaacttca	caagtagaac	aacagagtta	attgacctct	atccttaaga	120
gttaccagag	aattattaaa	aaactaaaga	acaatcaaag	cctgggtcctg	tgccaccacc	180
caaaaacatg	tatagcctat	gtgcagctcg	gca			213

<210> 23
 <211> 679
 <212> DNA
 <213> rattus norvegicus

<220>
 <221> unsure
 <222> 5, 11, 12, 13, 16, 18, 21, 23, 30, 36, 40, 41, 48, 50, 53,
 55, 56, 59, 72, 91, 92, 103, 106, 120, 123, 129, 133, 136
 <223> n = A,T,C or G

<220>
 <221> unsure
 <222> 138, 143, 153, 155, 157, 165, 168, 171, 175, 178, 180, 181,
 182, 194, 200, 205, 207, 210, 213, 214, 225, 232, 244, 274,
 <223> n = A,T,C or G

<220>
 <221> unsure
 <222> 281, 285, 294, 299, 313, 349, 353, 358, 360, 374, 386, 388,
 411, 414, 415, 452, 482, 487, 497, 499, 513, 540, 542, 556,
 <223> n = A,T,C or G

<220>
 <221> unsure
 <222> 558, 559, 563, 597, 608, 621, 647, 661, 662, 671, 675
 <223> n = A,T,C or G

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gtaaactaca	cnggagtact	taagtggaca	nnccacatgc	ganggncaag	gggatcaccn	120
tcnctcctnc	agnctntncg	tgntctcct	gtncntncac	tgccncanaa	nggangcncn	180
nnctcctatc	tgnttacagn	aaacntngcn	ctnnctctaa	gctcncccac	tntgtgaaa	240
ggcnatgtgt	gcgtgcctct	ccccatcac	ggcngtttgc	naaangggga	tgtntctgnc	300
ggcgatgaag	ttnggtcact	ccatgtttcc	cagtccnacc	tgtagacna	agnattgnan	360
tgtgatacga	ctcncgttaa	ggggantngc	ggaccagta	tgtttgccc	nacnnccact	420
tctttaaatg	gtggctaacg	gcgcttccta	gnataaacac	tattggtccc	cccctctgca	480
gnaccnntta	cttccgnana	aaaattgttg	tcntgatccg	cgacaaccac	accgtctgtn	540
gnttttagtt	gcaacncnna	tcnctccaaa	aaagtctcag	aaatcttcat	tttccnnggt	600
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nttccaaaag	nctancgat					679

<210> 24
 <211> 1150
 <212> DNA

<213> rattus norvegicus

<400> 24

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caaatactctg	gctgattggc	acagggtacct	gtgtggagag	gatcaatgag	atggtggaca	180
gggctaaacg	gaaggctgga	gtggatcctc	tggtagccct	tcgaagcctg	ggcttgtccc	240
tgagtgggtgg	ggagcaggag	gatgcagtga	ggctcctgat	ggaggagtgt	agggaccgat	300
ttccctacct	gagtgaagt	tacttcatca	ccactgatgc	agcaggttcc	atcgccacag	360
ctacaccgga	tggtgggatt	gtgctcatct	ctggaacagg	ctccaactgt	aggcttatca	420
accctgatgg	ctctgagagt	ggctgtgggtg	gctggggcca	catgatggga	gacgagggat	480
cagcctactg	gattgcacac	caagctgtga	aaattgtgtt	tgactccatt	gacaacctgg	540
aagcagctcc	tcatgatatt	ggccatgtca	agcaggccat	gttcaactac	ttccaggtgc	600
cagatcggct	aggaatccctc	actcacttgt	atagggactt	tgataagtcc	aagtttgctg	660
gattttgtca	gaaaattgca	gaaggtgcac	agcagggaga	ccctctttcc	aggttcatct	720
tcagaaaggc	tggggagatg	ctgggcagag	acgttgtggc	agtattgcca	gagattgacc	780
cagttttgtt	ccaaggggag	cttggcctcc	ccattctgtg	tgtgggctca	gtgtggaaga	840
gctgggagct	actgaaggaa	ggctttctcc	tggcactgac	gcagggccga	gagcaacagg	900
cacagaactc	cttctccagt	ttcaccctga	tgaagttgag	gcactcttct	gcactgggag	960
gggccagcct	gggggcccagg	cacattggac	accaccttcc	catggactac	agcgtcaatg	1020
ccattgcctt	ctattcctat	accttctagg	ggctgcccct	cttcccattc	agccaacact	1080
gagtgttggg	agatttctct	tttttaaaaa	cacatgagaa	aataaatgca	ctttactccc	1140
tccccaaaaa						1150

<210> 25

<211> 348

<212> PRT

<213> rattus norvegicus

<400> 25

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			20					25					30			
Ala	Glu	Ala	Asp	Gly	Leu	Ser	Thr	Asn	His	Trp	Leu	Ile	Gly	Thr	Gly	
		35					40					45				
Thr	Cys	Val	Glu	Arg	Ile	Asn	Glu	Met	Val	Asp	Arg	Ala	Lys	Arg	Lys	
	50					55				60						
Ala	Gly	Val	Asp	Pro	Leu	Val	Pro	Leu	Arg	Ser	Leu	Gly	Leu	Ser	Leu	
65					70					75				80		
Ser	Gly	Gly	Glu	Gln	Glu	Asp	Ala	Val	Arg	Leu	Leu	Met	Glu	Glu	Leu	
				85					90					95		
Arg	Asp	Arg	Phe	Pro	Tyr	Leu	Ser	Glu	Ser	Tyr	Phe	Ile	Thr	Thr	Asp	
			100					105					110			
Ala	Ala	Gly	Ser	Ile	Ala	Thr	Ala	Thr	Pro	Asp	Gly	Gly	Ile	Val	Leu	
		115					120					125				
Ile	Ser	Gly	Thr	Gly	Ser	Asn	Cys	Arg	Leu	Ile	Asn	Pro	Asp	Gly	Ser	
	130					135					140					
Glu	Ser	Gly	Cys	Gly	Gly	Trp	Gly	His	Met	Met	Gly	Asp	Glu	Gly	Ser	
145				150					155					160		
Ala	Tyr	Trp	Ile	Ala	His	Gln	Ala	Val	Lys	Ile	Val	Phe	Asp	Ser	Ile	
				165					170					175		
Asp	Asn	Leu	Glu	Ala	Ala	Pro	His	Asp	Ile	Gly	His	Val	Lys	Gln	Ala	
			180					185					190			
Met	Phe	Asn	Tyr	Phe	Gln	Val	Pro	Asp	Arg	Leu	Gly	Ile	Leu	Thr	His	
	195					200						205				
Leu	Tyr	Arg	Asp	Phe	Asp	Lys	Ser	Lys	Phe	Ala	Gly	Phe	Cys	Gln	Lys	
	210					215					220					
Ile	Ala	Glu	Gly	Ala	Gln	Gln	Gly	Asp	Pro	Leu	Ser	Arg	Phe	Ile	Phe	
225				230						235				240		
Arg	Lys	Ala	Gly	Glu	Met	Leu	Gly	Arg	His	Val	Val	Ala	Val	Leu	Pro	
				245					250					255		
Glu	Ile	Asp	Pro	Val	Leu	Phe	Gln	Gly	Glu	Leu	Gly	Leu	Pro	Ile	Leu	
			260					265					270			
Cys	Val	Gly	Ser	Val	Trp	Lys	Ser	Trp	Glu	Leu	Leu	Lys	Glu	Gly	Phe	

	275						280						285						
Leu	Leu	Ala	Leu	Thr	Gln	Gly	Arg	Glu	Gln	Gln	Ala	Gln	Asn	Ser	Phe				
	290					295					300								
Ser	Ser	Phe	Thr	Leu	Met	Lys	Leu	Arg	His	Ser	Ser	Ala	Leu	Gly	Gly				
305					310					315					320				
Ala	Ser	Leu	Gly	Ala	Arg	His	Ile	Gly	His	His	Leu	Pro	Met	Asp	Tyr				
				325					330					335					
Ser	Val	Asn	Ala	Ile	Ala	Phe	Tyr	Ser	Tyr	Thr	Phe								
			340					345											

<210> 26
 <211> 800
 <212> DNA
 <213> rattus norvegicus

<400> 26
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 cgcggcgagc agctcttcag tgaagaagga agcaatcgga gggtcagcaa tgaacgtgga 180
 gcatgagggt aacctcctgg tggaggaaat tcatcgctctg gggtccaaaa atgccgatgg 240
 gaaactgagt gtgaagtttg gggctcctctt ccaagacgac agatgtgcca atctctttga 300
 aaccgttggt gggaactctg aaagcccgca aaacgaagga agattgttac gtacgcagaa 360
 gagctgcttt tgcaagggtgt tcatgatgat gttgacattg tattgctgca agattaatgt 420
 ggtttgacaga tctgggggta tctggtaaac tggaataatt aagttaaagg acaaacatga 480
 agttccttat gtatttttat agacctttgt aaacaaaagg ggacttggtg agaagtcctg 540
 tttttatacc ttggagcaaa acattacaat gtaaaaaataa acaaaacctg ttattttttt 600
 tttcttaaga aggtaatcgg gagacgtagg caataaaatg ttttcagagg tgcgaaaaag 660
 cttttgtttt cttaaacat tcttagtctc tgccacactt gacactccgt caaagtgaga 720
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<210> 27
 <211> 92
 <212> PRT
 <213> rattus norvegicus

<400> 27
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 20 25 30
 Leu Phe Gln Asp Asp Arg Cys Ala Asn Leu Phe Glu Thr Val Gly Gly
 35 40 45
 Asn Ser Glu Ser Pro Gln Asn Glu Gly Arg Leu Leu Arg Thr Gln Lys
 50 55 60
 Ser Cys Phe Cys Lys Val Phe Met Met Met Leu Thr Leu Tyr Cys Cys
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 Lys Ile Asn Val Val Cys Arg Ser Gly Gly Ile Trp
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<210> 28
 <211> 1538
 <212> DNA
 <213> rattus norvegicus

<220>
 <221> unsure
 <222> 652, 1523
 <223> n = A,T,C or G

<400> 28
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caagcagctt	taaccccatc	atctcttccc	agacttcgga	ctctgaggaa	cattcatcct	240
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<210> 29

<211> 404

<212> PRT

<213> rattus norvegicus

<220>

<221> unsure

<222> (1)...(404)

<223> Xaa = Any Amino Acid

<400> 29

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Asn	Asn	Cys	Pro	Ile	Cys	Arg	Leu	Pro	Phe	Arg	Ala	Leu	Leu	Gln	Ile
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Arg	Ala	Met	Arg	Lys	Lys	Leu	Gly	Pro	Leu	Ser	Pro	Ser	Ser	Phe	Asn
	50					55					60				
Pro	Ile	Ile	Ser	Ser	Gln	Thr	Ser	Asp	Ser	Glu	His	Ser	Ser	Ser	
65					70				75					80	
Glu	Asn	Ile	Pro	Ala	Gly	Tyr	Glu	Val	Val	Ser	Leu	Leu	Glu	Ala	Leu
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Gly	Asp	Gly	His	Leu	Ser	Gly	Met	Leu	Pro	Ser	Tyr	Gly	Ser	Asp	Gly
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His	Leu	Pro	Pro	Val	Arg	Thr	Leu	Ser	Pro	Leu	Asp	His	Leu	Ser	Asp
	130					135					140				
Cys	Asn	Ser	Gln	Gly	Leu	Lys	Leu	Asn	Lys	Ser	Leu	Ser	Lys	Ser	Ile
145					150					155					160
Ser	Gln	Asn	Ser	Ser	Val	Leu	His	Glu	Glu	Glu	Asp	Glu	Arg	Ser	Cys
				165					170					175	
Ser	Glu	Ser	Asp	Thr	Gln	Leu	Ser	Gln	Arg	Leu	Ser	Ala	Gln	His	Pro
			180					185					190		
Glu	Glu	Gly	Pro	Asp	Val	Thr	Pro	Glu	Ser	Glu	Asn	Leu	Thr	Leu	Ser
		195					200					205			
Ser	Ser	Gly	Ala	Val	Asp	Gln	Ser	Xaa	Cys	Thr	Gly	Thr	Pro	Leu	Ser
	210					215					220				
Ser	Thr	Ile	Ser	Ser	Pro	Glu	Asp	Pro	Ala	Ser	Ser	Ser	Leu	Ala	Gln

225	Ser	Val	Met	Ser	Met	230	Ala	Ser	Ser	Gln	Ile	235	Ser	Thr	Asp	Thr	Val	240	Ser
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	Ser	Met	Ser	Gly	260	Ser	Arg	Ala	Ala	265	Ser	Arg	Ala	Pro	Ser	270	Glu	Glu	Glu
	Ala	Pro	Pro	Ser	275	Pro	Arg	Ala	Ala	280	Ser	Arg	Ala	Pro	Ser	285	Glu	Glu	Glu
	Glu	Thr	Pro	Ala	Glu	Ser	Pro	Asp	Ser	295	Asn	Phe	Ala	Gly	Leu	300	Pro	Ala	
	Gly	Glu	Gln	Asp	Ala	Glu	Gly	Asn	Asp	310	Ile	Met	Glu	Glu	Glu	315	Asp	Arg	
305	Ser	Pro	Val	Gln	Glu	Asp	Gly	Gln	Arg	320	Thr	Cys	Ala	Phe	Leu	325	Gly	Met	
	Glu	Cys	Asp	Asn	Asn	Asn	Asp	Phe	Asp	330	Val	Ala	Ser	Val	Lys	335	Ala	Leu	
	Asp	Asn	Lys	Leu	Cys	Ser	Glu	Val	Cys	340	Leu	Pro	Gly	Thr	Trp	345	Gln	His	
	Asp	Ala	Ala	Ile	Ile	Asn	Arg	His	Asn	350	Thr	Gln	Arg	Arg	Arg	355	Leu	Ser	
	Pro	Ser	Ser	Leu	Glu	Asp	Pro	Glu	Glu	360	Asp	Arg	Pro	Cys	Val	365	Trp	Asp	
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<210> 30
 <211> 922
 <212> DNA
 <213> rattus norvegicus

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	ccgctgcagc	ctcctgacac	ggtgatccgg	gcgggccccg	caggaatttt	atccccctac	180
	cgccctcaca	ctagtgtcgc	atgtccacta	tccagaacct	ccaatctttc	gacccctttg	240
	ctgatgcaac	taagggcgac	gacttactcc	cggcaggggac	tgaggactac	attcatataa	300
	gaatccagca	gcggaacggc	aggaagacgc	tgaccactgt	gcagggcatt	gcggacgatt	360
	atgacaaaaa	gaaacttggtg	aaagctttca	aaaagaaatt	cgctgtaat	gggactgtga	420
	ttgaacaccc	tgagtacgga	gaggtcattc	agcttcaagg	cgaccaaaagg	aagaacattt	480
	gccagtttct	tttgagggtt	ggcatcgtca	aggaggagca	gctgaagggt	cacggattct	540
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	aaagattttt	ttctgagcgt	tcatttctag	tttattttca	cttgattgtt	aaatgttttt	840
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<210> 31
 <211> 113
 <212> PRT
 <213> rattus norvegicus

<400> 31	Met	Ser	Thr	Ile	Gln	Asn	Leu	Gln	Ser	Phe	Asp	Pro	Phe	Ala	Asp	Ala
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				20				25					30			
	Ile	Arg	Ile	Gln	Gln	Arg	Asn	Gly	Arg	Lys	Thr	Leu	Thr	Val	Gln	
			35				40					45				
	Gly	Ile	Ala	Asp	Asp	Tyr	Asp	Lys	Lys	Lys	Leu	Val	Lys	Ala	Phe	Lys
	50						55				60					
	Lys	Lys	Phe	Ala	Cys	Asn	Gly	Thr	Val	Ile	Glu	His	Pro	Glu	Tyr	Gly
65					70				75						80	
	Glu	Val	Ile	Gln	Leu	Gln	Gly	Asp	Gln	Arg	Lys	Asn	Ile	Cys	Gln	Phe

85 90 95
 Leu Leu Glu Val Gly Ile Val Lys Glu Glu Gln Leu Lys Val His Gly
 100 105 110
 Phe

<210> 32
 <211> 1856
 <212> DNA
 <213> rattus norvegicus

<400> 32
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 taaaacaact tcttaaagac aagcctgagc atgtgggtct gaaagtgggt gtgctgacga 180
 ggggctgtaa cggcctctct tacagcctgg agtatacaaa gacaaaagga gatgctgatg 240
 aagaagttaa tcaagacgga gtccgagtgt tcatcgagaa gaaagcccag ctaaccctgt 300
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 ttatgatcct aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1856

<210> 33
 <211> 134
 <212> PRT
 <213> rattus norvegicus

<400> 33
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 20 25 30
 Thr Pro Ser Ala Val Asn Lys Ile Lys Gln Leu Leu Lys Asp Lys Pro
 35 40 45
 Glu His Val Gly Leu Lys Val Gly Val Arg Thr Arg Gly Cys Asn Gly
 50 55 60
 Leu Ser Tyr Ser Leu Glu Tyr Thr Lys Thr Lys Gly Asp Ala Asp Glu
 65 70 75 80
 Glu Val Ile Gln Asp Gly Val Arg Val Phe Ile Glu Lys Lys Ala Gln
 85 90 95
 Leu Thr Leu Leu Gly Thr Glu Met Asp Tyr Val Glu Asp Lys Leu Ser
 100 105 110

Ser Glu Phe Val Phe Asn Asn Pro Asn Ile Lys Gly Thr Cys Gly Cys
 115 120 125
 Gly Glu Ser Phe Asn Val
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<210> 34
 <211> 1925
 <212> DNA
 <213> rattus norvegicus

<400> 34
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 gacccgagac gtagtaagta caacttggca aatacatgtt agaggagcag ggaccacgct 180
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 gccaa 1925

<210> 35
 <211> 1195
 <212> DNA
 <213> rattus norvegicus

<400> 35
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 catagcttta atgtctgttt tagctgcaaa actcattgtt cactttctgt tagaaaatct 180
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 ccgtggatga gagccatgtg ttgtaggatt ctcttcccta ttggctctga gcttgtgtca 720
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<210> 36

<211> 1149

<212> DNA

<213> rattus norvegicus

<400> 36

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tgctgtcatc	ctcttcggaa	acatcgcaaa	aagaagaagg	aagagaaaaat	ggaaaactttg	420
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gaaatatatt	gtttcgtttt	atcgttcagt	agtctgtgag	attgcatttt	ttctcattcc	1080
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<210> 37

<211> 717

<212> PRT

<213> rattus norvegicus

<400> 37

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Cys	Thr	Gly	Ala	Thr	Ala	Thr	Cys	Asn	Gly	Gly	Cys	Asn	Cys	Thr	Thr
			20					25					30		
Cys	Asn	Thr	Cys	Cys	Asn	Cys	Gly	Ala	Thr	Cys	Asn	Cys	Ala	Gly	Ala
			35					40					45		
Thr	Ala	Cys	Asn	Asn	Gly	Cys	Asn	Cys	Ala	Cys	Cys	Gly	Gly	Asn	Asn
			50					55					60		
Asn	Thr	Asn	Thr	Cys	Asn	Gly	Asn	Gly	Gly	Thr	Asn	Ala	Thr	Cys	Asn
65					70				75					80	
Thr	Cys	Cys	Asn	Cys	Cys	Ala	Thr	Cys	Thr	Cys	Thr	Cys	Asn	Thr	Cys
			85						90					95	
Cys	Cys	Cys	Gly	Ala	Cys	Asn	Thr	Gly	Cys	Ala	Cys	Thr	Cys	Cys	Gly
			100						105					110	
Gly	Gly	Thr	Asn	Thr	Asn	Asn	Thr	Ala	Cys	Ala	Cys	Asn	Gly	Gly	Ala
			115						120				125		
Cys	Ala	Cys	Thr	Gly	Thr	Ala	Thr	Cys	Asn	Asn	Ala	Cys	Ala	Gly	Asn
			130						135				140		
Ala	Ala	Ala	Cys	Cys	Thr	Asn	Cys	Cys	Cys	Asn	Gly	Gly	Cys	Cys	Cys
145					150					155				160	
Cys	Ala	Gly	Gly	Gly	Ala	Thr	Cys	Ala	Cys	Cys	Ala	Thr	Asn	Cys	Cys
			165						170					175	
Thr	Cys	Gly	Asn	Cys	Cys	Cys	Asn	Gly	Cys	Asn	Thr	Gly	Thr	Asn	Thr
			180						185					190	

Ala	Thr	Ala	Ala	Asn	Ala	Thr	Cys	Ala	Gly	Gly	Asn	Asn	Asn	Thr	Ala
		195					200					205			
Cys	Ala	Thr	Cys	Asn	Ala	Asn	Gly	Ala	Ala	Cys	Asn	Asn	Ala	Cys	Thr
	210					215					220				
Ala	Thr	Cys	Ala	Cys	Asn	Gly	Asn	Thr	Cys	Thr	Cys	Thr	Asn	Thr	Thr
225					230					235					240
Asn	Asn	Cys	Thr	Cys	Ala	Gly	Thr	Gly	Thr	Asn	Cys	Ala	Cys	Cys	Thr
				245					250					255	
Thr	Cys	Cys	Ala	Cys	Thr	Asn	Cys	Asn	Gly	Ala	Ala	Asn	Cys	Thr	Asn
			260					265					270		
Asn	Thr	Cys	Gly	Cys	Thr	Asn	Cys	Asn	Cys	Cys	Asn	Cys	Asn	Gly	Thr
		275					280					285			
Thr	Gly	Gly	Gly	Ala	Ala	Ala	Gly	Gly	Cys	Gly	Ala	Asn	Cys	Asn	Gly
	290					295					300				
Thr	Asn	Cys	Cys	Gly	Gly	Cys	Asn	Ala	Cys	Ala	Thr	Gly	Cys	Cys	Gly
305					310					315					320
Thr	Thr	Thr	Asn	Cys	Gly	Asn	Cys	Asn	Thr	Cys	Thr	Gly	Asn	Asn	Cys
				325					330					335	
Ala	Cys	Asn	Thr	Gly	Gly	Gly	Gly	Ala	Thr	Cys	Thr	Asn	Cys	Thr	Asn
			340					345					350		
Cys	Ala	Ala	Asn	Gly	Asn	Ala	Ala	Thr	Cys	Ala	Ala	Thr	Thr	Asn	Gly
		355					360					365			
Asn	Gly	Thr	Ala	Ala	Cys	Cys	Cys	Ala	Cys	Gly	Gly	Thr	Thr	Thr	Asn
	370					375					380				
Cys	Asn	Cys	Ala	Ala	Thr	Cys	Ala	Cys	Thr	Ala	Cys	Thr	Thr	Cys	Thr
385					390					395					400
Cys	Ala	Asn	Asn	Cys	Asn	Ala	Asn	Gly	Gly	Cys	Cys	Asn	Thr	Thr	Gly
				405					410					415	
Ala	Ala	Asn	Thr	Gly	Thr	Thr	Ala	Thr	Cys	Cys	Cys	Ala	Cys	Cys	Ala
			420					425					430		
Cys	Cys	Ala	Asn	Gly	Gly	Gly	Gly	Cys	Asn	Ala	Asn	Thr	Cys	Gly	Gly
		435					440					445			
Gly	Ala	Cys	Cys	Thr	Asn	Ala	Cys	Ala	Ala	Thr	Thr	Cys	Ala	Thr	Cys
	450					455					460				
Cys	Thr	Cys	Ala	Gly	Cys	Cys	Gly	Gly	Cys	Cys	Cys	Cys	Ala	Gly	Asn
465					470					475					480
Cys	Thr	Thr	Ala	Ala	Ala	Ala	Ala	Ala	Thr	Thr	Cys	Ala	Ala	Ala	Gly
				485					490					495	
Gly	Asn	Cys	Asn	Cys	Thr	Thr	Gly	Cys	Cys	Cys	Gly	Cys	Asn	Thr	Thr
			500					505					510		
Asn	Thr	Thr	Asn	Cys	Cys	Thr	Thr	Ala	Gly	Cys	Cys	Cys	Gly	Cys	Cys
		515					520					525			
Asn	Cys	Cys	Asn	Gly	Ala	Cys	Ala	Ala	Cys	Ala	Asn	Cys	Cys	Asn	Ala
	530					535					540				
Asn	Asn	Ala	Ala	Cys	Ala	Ala	Cys	Cys	Cys	Cys	Cys	Asn	Asn	Thr	Cys
545					550					555					560
Thr	Thr	Ala	Asn	Gly	Thr	Thr	Gly	Cys	Asn	Asn	Ala	Asn	Cys	Cys	Cys
				565					570					575	
Ala	Cys	Ala	Gly	Gly	Ala	Asn	Asn	Thr	Thr	Gly	Asn	Asn	Ala	Thr	Ala
			580					585					590		
Cys	Cys	Gly	Gly	Gly	Thr	Thr	Thr	Cys	Cys	Cys	Cys	Asn	Gly	Ala	Ala
		595					600					605			
Ala	Cys	Thr	Asn	Cys	Thr	Cys	Ala	Ala	Asn	Gly	Cys	Cys	Asn	Cys	Cys
	610					615					620				
Gly	Thr	Thr	Cys	Cys	Ala	Ala	Cys	Cys	Cys	Cys	Cys	Gly	Thr	Thr	Ala
625					630					635					640
Cys	Gly	Ala	Ala	Ala	Cys	Cys	Gly	Thr	Asn	Cys	Cys	Cys	Asn	Thr	Thr
				645					650					655	
Thr	Cys	Cys	Thr	Thr	Cys	Cys	Gly	Ala	Gly	Asn	Thr	Thr	Gly	Cys	Cys
			660					665					670		
Thr	Ala	Thr	Thr	Ala	Ala	Asn	Asn	Cys	Cys	Cys	Cys	Cys	Asn	Ala	Ala
		675					680					685			
Gly	Thr	Thr	Cys	Thr	Asn	Cys	Thr	Thr	Cys	Gly	Thr	Thr	Asn	Gly	Asn
	690					695					700				
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705

710

715

<210> 38
 <211> 235
 <212> DNA
 <213> rattus norvegicus

<220>
 <221> unsure
 <222> 10, 11, 12, 13, 18, 20, 29, 30, 31, 39, 40, 46, 47, 49,
 58, 71, 84, 90, 103, 111, 123, 126, 139, 141, 165, 185, 192, 199
 <223> n = A,T,C or G

<220>
 <221> unsure
 <222> 204, 211, 213, 214, 228
 <223> n = A,T,C or G

<400> 38
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 tcncncctc ccaagcttnt ncattgatgc tctctctgtt ccgtncctg ccgctacaca 180
 tggangctct tntccttnt ctctcttac nanncaaaca ttgccctntc tcata 235

<210> 39
 <211> 328
 <212> DNA
 <213> rattus norvegicus

<220>
 <221> unsure
 <222> 6, 11, 12, 28, 37, 40, 50, 68, 74, 86, 89, 93, 101, 107,
 117, 145, 159, 163, 164, 169, 172, 178, 179, 184, 186, 191
 <223> n = A,T,C or G

<220>
 <221> unsure
 <222> 192, 203, 204, 205, 215, 218, 219, 228, 229, 232, 233,
 235, 237, 239, 245, 247, 248, 250, 252, 254, 266, 274, 279
 <223> n = A,T,C or G

<220>
 <221> unsure
 <222> 284, 288, 290, 300, 304, 312, 317, 322
 <223> n = A,T,C or G

<400> 39
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 tttttggnaa aaangggggg ggaaanaanc cgnttttccc naaaacnggg gggaacnggc 120
 cgggggggga aaaaaaaggg ttacnaaggg aaacctttta aannggaang gntttgcnc 180
 cctntngaaa nntttgcccc ccnnnaggaa tcccnggnaa aacccaannc cnnncncng 240
 ggggncnntn cnangggacc ccaacncggg ccnaactng gggnaaan an gggcaaaacn 300
 ggtncgccgg gnaaaanggt anccccctc 328

<210> 40
 <211> 196
 <212> DNA
 <213> rattus norvegicus

<400> 40
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 aagatcccaa acccaaaagc cacattgtta attagccttt ttattgtgtt tttttttttt 120
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180
 ttttggcagc tcggca 196

<210> 41
<211> 422
<212> DNA
<213> rattus norvegicus

<400> 41
tacgggcgct gattttttacg aacattacct ggcaggggaa atttgataag tatccactgt 60
gggtggcgac tacctggtaa aagacaaaacc ccgtgtgaaa aggccctgga ctttttggca 120
acacaacgaa accggccacg tgaatggcat ccggtcttat gtggacttca atgttttcaa 180
cggggacagc acagattttg ccgaaactatt aatgaaataa tgcagaattt cgcttttcaa 240
ataagcccat ggatcctgac gtaaaaatatt tcctgctggg gatcgtgcag tccatttcga 300
tgctcatact ttggctgatg ctcaacatga cctttgggat ctattttaat tttgctttcc 360
ccgacaatgg tttgacgctt ggcaacatca tttattacct cttcctgctg ggcagctcgg 420
ca 422

<210> 42
<211> 304
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 2, 7, 71, 80, 87, 88, 92, 97, 98, 99, 103, 109, 110, 130,
133, 141, 147, 150, 159, 162, 165, 169, 172, 174, 179, 182
<223> n = A,T,C or G

<220>
<221> unsure
<222> 184, 190, 194, 195, 200, 202, 207, 209
<223> n = A,T,C or G

<400> 42
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agatttttgt ntgagcgttn ctttctnntt tnttttnnt tgnttgtnn atgttttgt 120
tgttggttn ttnaaactgt ntgttgncan ttcaacatna anggnaggna antntgtgnc 180
tncnttgcan tgtnncatgn tncccananc ccaaaaaaaaa aaaaaaagagta 240
caaatacac aaaatttgac atttttgtaa taatactttg gttgtgtgtt ggtgacggcg 300
attg 304